



JPW 1635

PTO/SB/21 (02-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/920,394	
	Filing Date	August 1, 2001	
	First Named Inventor	Crooke, et al.	
	Art Unit	1635	
	Examiner Name	J. Schultz	
Total Number of Pages in This Submission	6	Attorney Docket Number	ISPH-0589

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	7 References
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	HOWSON AND HOWSON Mary E. Bak
Signature	<i>Mary E. Bak</i>
Date	December 23, 2004

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Diana M. Waligun		
Signature	<i>Diana M. Waligun</i>	Date	December 23, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



ISPH-0589

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No. : 09/920,394 Confirmation No.: 4398
Applicant : Crooke, et al.
Filed : August 1, 2001
TC/A.U. : 1635
Examiner : J. Schultz
Customer No. : 36441
Title : ANTISENSE MODULATION OF ACYL COENZYME
A CHOLESTEROL ACYLTRANSFERASE-1
EXPRESSION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THIRD INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants submit to the Examiner the attached Forms PTO/SB/08A/B document listings and this paper pursuant to 37 CFR § 1.56 and § 1.97-1.98. Forms PTO/SB/08A/B are attached and copies of the documents are enclosed herewith.

Pursuant to 37 CFR §1.97 (e) (1), each item of information contained in this Information Disclosure Statement (IDS) was first cited in a communication from a foreign patent office in the counterpart European application not more than three months prior to the filing of this SIDS. Therefore, no fees are believed due.

CERTIFICATE UNDER 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 23, 2004.

Signature: Diana M. Waligun
Name: Diana M. Waligun

REMARKS

Listed below are documents cited in the Supplementary European Search Report which issued in counterpart European Patent Application No. 02763292.6 filed July 17, 2002. This Search Report is dated November 23, 2004, but was forwarded by the European Patent Office on December 7, 2004. A copy of the Search report is enclosed.

- (1) Database EMBL Online "Homo sapiens acyl coenzyme A:cholesterol acyltransferase mRNA, complete cds", Database Accession No. S73751 May 18, 1995 (Attached as item AR)
- (2) BECKER, et al., "Purification, Cloning, and Expression of a Human Enzyme With Acyl Coenzyme A: Cholesterol Acyltransferase Activity, Which Is Identical to Liver Carboxylesterase", Arteriosclerosis and Thrombosis, Vol. 14 No. 8, 1346-1355 August 1994 (Attached as item AS)
- (3) Database UniProt Online "Liver Carboxylesterase 1 Precursor", Database Accession No. P23141 November 1, 1991 (Attached as item AT)
- (4) RIDDLES, et al., "Cloning and Analysis of cDNA Encoding A Human Liver Carboxylesterase", Gene, Vol. 108, No. 2, Pages 289-292 December 15, 1991 (Attached as item AU)
- (5) KROETZ, et al., "Glycosylation-Dependent Activity of Baculovirus-Expressed Human Liver Carboxylesterases: cDNA Cloning and Characterization of Two Highly Similar Enzyme Forms", BIOCHEMISTRY, Vol. 32 No. 43, pages 11606-11617 November 2, 1993 (Attached as item AV)

(6) Database Geneseq Online "Human Cancer
Associated Protein Sequence SEQ ID No. 1177"
Database Accession No. AAB43732 February 8,
2001 (Attached as item AW)

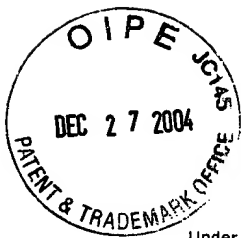
(7) International Patent Publication No.
WO 00/55350 (Human Genome Sciences Inc.)
Specifically noted pages 291-294 line 29;
pages 1799-1802; Example 15, and Claim 11.
September 21, 2000 (Attached as item AQ)

The Examiner is respectfully requested to consider the
enclosed documents identified in this paper and in the
attached forms PTO/SB/08A/B during the course of
examination of this application.

The Director is hereby authorized to charge any
deficiency in any fees due with the filing of this paper or
credit any overpayment in any fees to our Deposit Account
Number 08-3040.

Respectfully submitted,
HOWSON AND HOWSON
Attorneys for Applicant

By Mary E. Bak
Mary E. Bak
Registration No. 31,215
Spring House Corporate Center
Box 457
Spring House, PA 19477
(215) 540-9200



ISPH-0589

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/920,394
				Filing Date	August 1, 2001
				First Named Inventor	Crooke, et al.
				Group Art Unit	1635
				Examiner Name	J. Schultz
Sheet	1	of	1	Attorney Docket Number	ISPH-0589

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)				
	AQ	WO 00/55350	09-21-2000	Rosen, et al.		

Examiner Signature	Date Considered
-----------------------	--------------------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETE FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Approved for use through 06/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/920,394
				Filing Date	August 1, 2001
				First Named Inventor	Crooke, et al.
				Group Art Unit	1635
Examiner Name	J. Schultz				
Sheet	1	of	1	Attorney Docket Number	ISPH-0589

NONPATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	
	AR	Database EMBL Online "Homo Sapiens Acyl Coenzyme A: Cholesterol Acyltransferase mRNA, Complete cds" Database Accession No. S73751 May 18, 1995		
	AS	BECKER, et al. "Purification, Cloning, and Expression of a Human Enzyme With Acyl Coenzyme A: Cholesterol Acyltransferase Activity, Which Is Identical to Liver Carboxylesterase", Arteriosclerosis and Thrombosis, Vol. 14 No. 8, 1346-1355 August 1994		
	AT	Database UniProt Online "Liver Carboxylesterase 1 Precursor", Database Accession No. P23141 November 1, 1991		
	AU	RIDDLES, et al. "Cloning and Analysis of cDNA Encoding A Human Liver Carboxylesterase", Gene, Vol. 108, No. 2, Pages 289-292 December 15, 1991		
	AV	KROETZ, et al. "Glycosylation-Dependent Activity of Baculovirus-Expressed Human Liver Carboxylesterases: cDNA Cloning and Characterization of Two Highly Similar Enzyme Forms", BIOCHEMISTRY, Vol. 32 No. 43, pages 11606-11617 November 2, 1993		
	AW	Database Geneseq Online "Human Cancer Associated Protein Sequence SEQ ID No. 1177" Database Accession No. AAB43732 February 8, 2001		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETE FORMS TO THIS ADDRESS.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-919 and select option 2.